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ABSTRACT

An arc-quenching composition is provided including a filler, a fiber and a binder. Preferably, the filler includes an arc-quenching compound such as melamine. The binder 5 includes a thermosetting resin to facilitate forming of the arc-quenching composition into an arc-quenching fuse tube. In a preferred arrangement, an outer tube is formed over the arc-quenching fuse tube to provide an overall high-strength fuse tube. Also in a preferred arrangement, in order to provide a fuse tube that is capable of operation over an extremely wide current range, the inner arc-quenching tube includes a tapered bore. According to one 10 fabrication technique, the outer tube is formed over the arc-quenching inner tube before the curing of the inner tube such that a single structure results.

DEPARTMENT OF DEFENSE